

Perfluorocarbon emulsions with non-fluorinated surfactants

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Inventor(s):

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A stable FC emulsion is described. The FC emulsion of the present invention comprises a continuous FC immiscible hydrophilic liquid phase and a dispersed phase comprising FC suspended as droplets within the continuous phase. The emulsion further comprises an emulsifying agent and a stabilizing agent. The stabilizing agent of the present invention reduces the ability of the FC droplets to move within the continuous phase. The present invention also provides a method of making a FC emulsion.; The method comprises mixing an FC immiscible hydrophilic liquid and a solid emulsifying agent by agitation at a temperature elevated above the phase transition temperature of the emulsifying agent and below the boiling temperature of the FC immiscible hydrophilic liquid, and adding FC to the mixture of step (a) and agitating at the elevated temperature to disperse droplets of FC in the FC immiscible hydrophilic liquid to form the FC emulsion. The invention also provides another method of making an FC emulsion, which does not require a solid emulsifying agent. The method comprises mixing an FC immiscible hydrophilic liquid and an emulsifying agent to form a first mixture; mixing a stabilizing agent with the first mixture to form a second mixture; and mixing FC with the second mixture to form a third mixture to disperse droplets of FC in the FC immiscible hydrophilic liquid and to form the FC emulsion, wherein the stabilizing agent reduces ability of the droplets to move within a continuous phase of the FC emulsion.

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